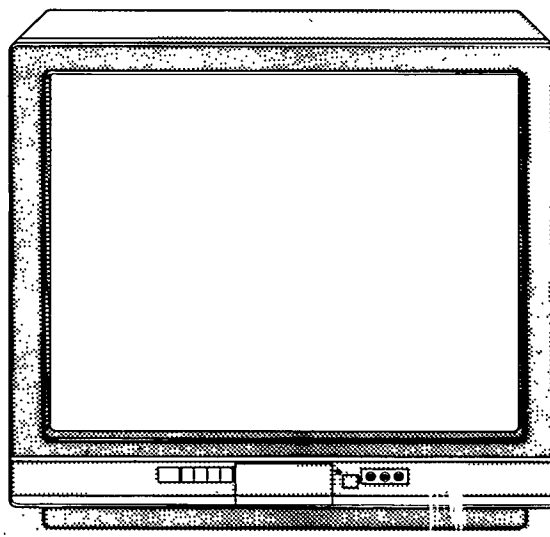
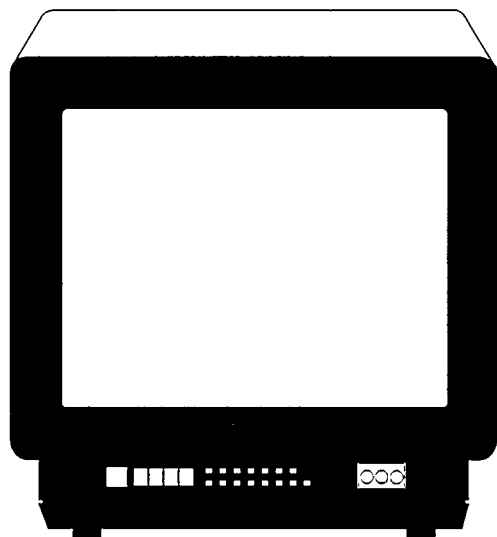




CONSUMER ELECTRONICS

PHILIPS



14GR2326
15GR2336
17GR2346
21GR2356

COLOUR TELEVISION
FARBFERNSEHER
TÉLÉVISEUR COULEUR
KLEURENTELEVISIE
TELEVISORE A COLORI

English	Operating instructions Page 1-9
Deutsch	Bedienungsanleitung Seite 10-17
Français	Mode d'emploi Page 18-25
Nederlands	Gebruiksaanwijzing Pagina 26-33
Italiano	Istruzioni per l'uso Pagina 34-41

Write in pencil your TV station (or device) selections here:

No. TV station/device	No. TV station/device	No. TV station/device
0	20	40
1	21	41
2	22	42
3	23	43
4	24	44
5	25	45
6	26	46
7	27	47
8	28	48
9	29	49
10	30	50
11	31	51
12	32	52
13	33	53
14	34	54
15	35	55
16	36	56
17	37	57
18	38	58
19	39	59

Table of TV system frequencies

VHF BAND I

channel	frequency (MHz)
A	45.75
E2	48.25
2A	49.75
B	53.75
E3	55.25
2	55.75
3	60.50
C	61.75
E4	62.25
4	63.75

VHF BAND III

channel	frequency (MHz)
S1	105.25
S2	112.25
S3	119.25
S4	126.25
C	128.75
S5	133.25
S6	140.25
D	140.75
S7	147.25
E	152.75
S8	154.25
S9	161.25
F	164.75
S10	168.25
D	175.25
E5	175.25
5	176.00
G	176.75
E6	182.25
E	183.25
6	184.00
H	188.75
E7	189.25
F	191.25
7	192.00
E8	196.25
G	199.25
8	200.00

VHF BAND III

channel	frequency (MHz)
I	200.75
E9	203.25
H	207.25
9	208.00
E10	210.25
J	212.75
I	215.25
10	216.00
E11	217.25
J	223.25
E1A2	224.25
K	224.75
S11	231.25
L	236.75
S12	238.25
S13	245.25
M	248.25
S14	252.25
S15	259.25
N	260.75
S16	266.25
0	272.75
S17	273.25
S18	280.25
P	284.75
S19	287.25
S20	294.25
Q	296.75

UHF BAND

channel	frequency (MHz)
21	471.25
22	479.25
23	487.25
24	495.25
25	503.25
26	511.25
27	519.25
28	527.25
29	535.25

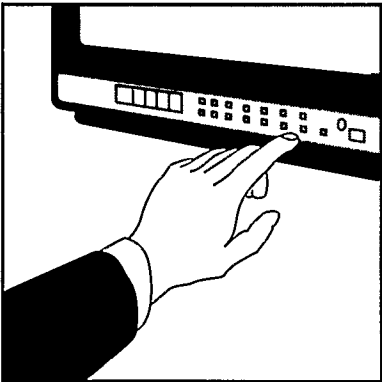
UHF BAND

channel	frequency (MHz)
30	543.25
31	551.25
32	559.25
33	567.25
34	575.25
35	583.25
36	591.25
37	599.25
38	607.25
39	615.25
40	623.25
41	631.25
42	639.25
43	647.25
44	655.25
45	663.25
46	671.25
47	679.25
48	787.25
49	695.25
50	703.25
51	711.25
52	719.25
53	727.25
54	735.25
55	743.25
56	751.25
57	759.25
58	767.25
59	775.25
60	783.25
61	791.25
62	799.25
63	807.25
64	815.25
65	823.25
66	831.25
67	839.25
68	847.25
69	855.25

note: Some TV models also receive 300-450 MHz (hyperband).

Installing and adjusting the TV

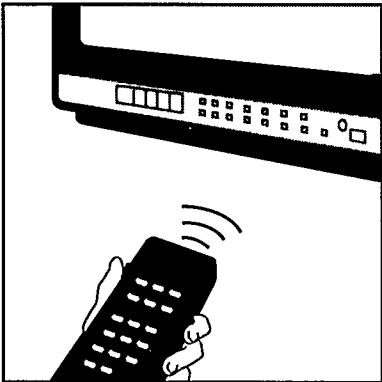
Page 3 to 4



- introduction
- to install the TV
- to connect the TV
- to switch the TV on and off
- to insert batteries in the remote control handset
- to test the remote control handset
- to select the system (P/S, PAL-I, SECAM)
- to store TV stations on program numbers

Operating the TV

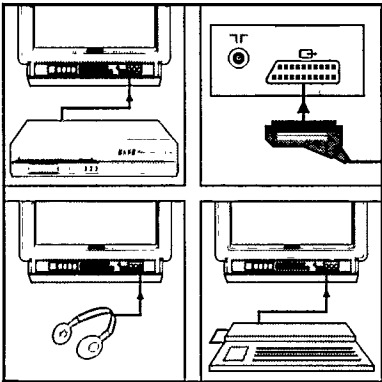
Page 5 to 6



- to select TV stations using program numbers
- to change the picture and sound settings
- to select stand-by mode
- to display picture and sound information

Additional features

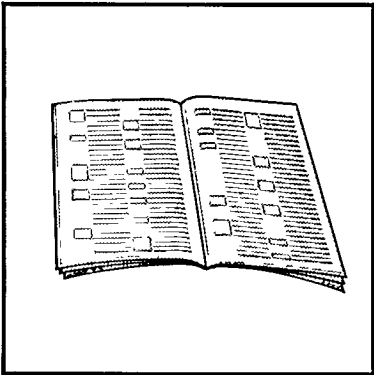
Page 7 to 8



- to connect a video recorder
- to connect other devices
- to connect headphones

General information

Page 9



- to store the stations directly
- to fine tune the picture quality
- to store your own personal preference values
- to clean the TV screen
- fault indication
- table of TV system frequencies (see inside cover)

Information for users in the UK

(Not applicable outside the UK)

Service for you

Your colour television has been designed and manufactured to the highest standards, and subject to rigorous testing. Provided it is properly operated and maintained it will perform well for many years. However, in complex equipment components can sometimes fail.

The legal responsibility for meeting any in-guarantee service needs for your TV is with the dealer from whom you bought it. Our own Service Division – Philips Service – provides your dealer with comprehensive technical advice, and distributes approved spare parts from Service Centres throughout the country. If your dealer has no service facilities, he can arrange for any work to be carried out by a competent third party organisation. In any event you may expect speedy attention to restore your TV to full working order without delay.

Free service for 12 months:

The dealer from whom the TV was purchased will arrange for any defect in manufacture or material to be rectified without charge for a period of 12 months from the date of initial consumer sales provided:

- reasonable evidence is supplied that the TV was purchased within 12 months prior to the date of claim
- the defect is not due to use of the TV on an incorrect voltage or contrary to the Company's Operating Instructions or to accidental damage (whether in transit or otherwise); misuse; neglect; unauthorised or inexperienced modification or repair.

The picture tube guarantee is administered by Mullard Limited. In addition to the customary 1 year free tube guarantee, Mullard will extend the guarantee period by a further 3 years for a nominal fee.

To register your tube guarantee please send:

- a) your name and address;
 - b) your set's identity card (which will be returned to you);
 - c) a cheque/p.o. made out to 'Mullard Ltd' for £ 15.00 if you wish to extend your 1 year guarantee by a further 3 years;
- to the following address:

Mullard Limited
Service Department
Free Post
Beddington Lane
Croydon CR9 9AU

Service after 12 months:

Continuing service after 12 months is available in the same way but the service will be chargeable.

These statements do not affect your statutory rights as a consumer.

If you have any question which your dealer cannot answer, please write to:

C.E. Consumer Relations Department
P.O. Box 298
420 London Road
Croydon CR9 3QR

All enquiries and claims can be handled more efficiently if accompanied by the Identity Card printed on the back cover of this booklet – this is provided for your reference and should be kept in a safe place.

Positioning the TV

For the best results, choose a position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 3 cm all around the TV for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures.

The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

Mains connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltage is different, consult your dealer.

Important

The wires in the mains lead are coloured according to the following code.

BLUE = NEUTRAL

BROWN = LIVE

If the mains plug (or adaptor) contains a fuse, the value of this fuse should be 3 Amp. Alternatively, if another type of plug (not fused), is used, the fuse at the distribution board should not be greater than 5 Amp.

If the colours of the wires in the mains lead do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The BLUE wire must be connected to the terminal marked 'N' or coloured black.

The BROWN wire must be connected to the terminal marked 'L' or coloured red. Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead – not only over the two wires.

Connecting the loop aerial (if provided)

The loop aerial will give satisfactory reception under good signal conditions. Fix the loop aerial bracket at the mounting-socket on the back of the TV. Connect the aerial plug to the 'I' socket on the TV.

If you want to use the TV in conjunction with other equipment which connects to the aerial socket (such as TV games, or a video camera) we recommend that these are connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

General Points

Please take note of the section 'General Information' at the end of the English section in this booklet.

Interference

The Department of Trade and Industry operates a Radio Investigation Service to help TV licence holders improve reception of BBC and IBA programmes where these are being spoilt by interference. If your dealer cannot help, ask at a main Post Office for the booklet 'How to Improve Television and Radio Reception'.

Installing the TV

Introduction

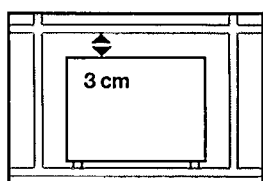
If you follow these operating instructions you will quickly learn how to adjust and operate all the functions of your new TV; but always read and perform the instructions in the sequence shown.

TV - Indicates actions that are performed using the TV buttons or sockets.

Handset - Indicates actions that are performed using the remote control handset.

TV To install the TV

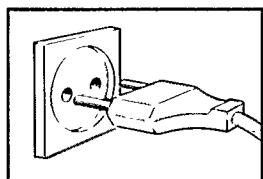
- Remove any packaging from the TV.
- Find the remote control handset and indoor aerial (if supplied) within the packaging.
- Place the TV on a solid base (e.g. a TV/video cabinet).
- Leave at least 3 cm around each side of the TV for ventilation.



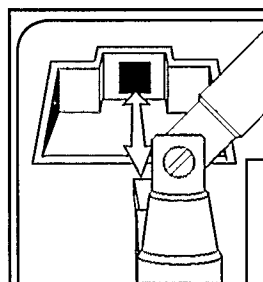
TV To connect the TV

IMPORTANT: The TV is only suitable for a mains voltage of 220/240 V ~ , 50 Hz (Consult your dealer if the mains supply is different).

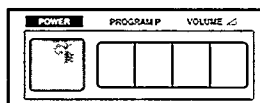
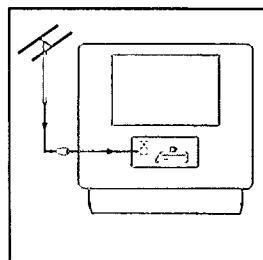
- Connect the TV to the mains supply socket.



- Fix the indoor aerial (if supplied) to the mounting-socket at the top left of the rear panel of the TV (unless an outdoor aerial is to be used).

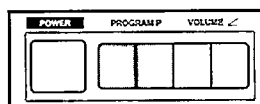


- Connect the aerial plug to the socket at the back of the TV.



TV To switch the TV on

- Press the POWER button on the front of the TV.
- If the GREEN colour is displayed on the lamp below the screen then the TV is switched on.

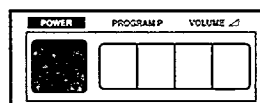


- If the RED colour is displayed on the lamp below the screen then you must press the left or right PROGRAM P button.

The TV will then switch on and the GREEN colour will be displayed on the lamp (for further information refer to the section 'to select stand-by mode').

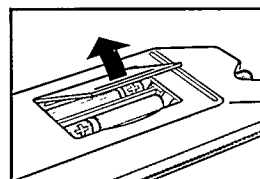
TV To switch the TV off

- Press the POWER button on the front of the TV.
- (If you want to switch off the TV temporarily refer to the section 'to select stand-by mode'.)



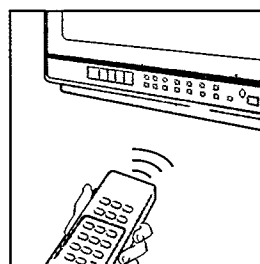
Handset To insert batteries in the remote control handset

- Remove the battery cover on the back of the remote control handset.
- Insert the two batteries supplied (type LRO3 1.5V).
- Replace the battery cover.



Handset To test the remote control handset

- Switch on the TV.
- Hold the remote control handset and direct it towards the GREEN coloured lamp below the TV screen.
- Press any digit button on the remote control handset. The GREEN coloured lamp should 'flash' ORANGE each time a button is pressed.

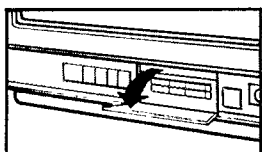


Adjusting the TV

The control buttons needed to search for, then store, TV stations on program numbers are on the front of the TV.



To prevent accidental changes to the selected TV stations stored on program numbers, the **store** (◇ ◇) button must be pressed using a pencil.



However on certain TV models the buttons you will need to adjust the TV are behind a control-panel flap; You must pull this control-panel flap forward to access the control buttons, and can close it once any required changes have been made. On these TV models the **store** (◇ ◇) button can be pressed using your finger.

TV To select the TV system (P/S, PAL-I, SECAM)

(This information only applies if your TV can receive several TV systems.)

- Press the **(Y)** button to select the available systems.

If P/S is displayed on the screen then you have selected the PAL or SECAM B + G system.

If PAL-I is displayed on the screen then you have selected the PAL-I system.

If SECAM is displayed on the screen then you have selected the SECAM L system.

- To change your selection press the **(Y)** button again, until the system you require is displayed on the screen.

TV To store TV stations on program numbers

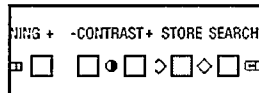
(Upto 60 TV stations can be stored on program numbers using the following method.)

1. Press the **(◇ ◇)** button, so that information is displayed about the current program number.

2. Press the **(M)** button so that the TV **automatically** searches until a TV station is found and displayed on the screen. If you want to continue searching for a specific TV station then press the **(M)** button again.

3. Select the required program number (0 to 59) by pressing the left or right PROGRAM **P** button.

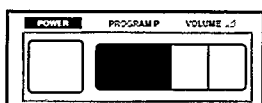
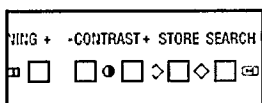
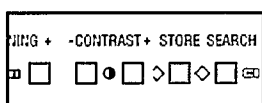
The selected program number is displayed on the screen.



4. Press the **(◇ ◇)** button to store the selected TV station and program number. The program number information is now removed from the screen.

Repeat steps 1 to 4 until all the TV stations you require have been stored on program numbers.

Note: You can write your TV station selections in the table provided in the inside cover.



Operating the TV

You can now operate your TV either using the remote control handset or directly using the TV buttons.

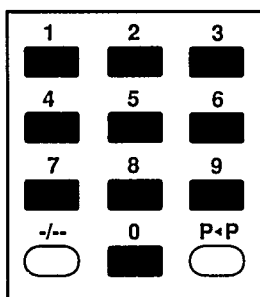
- Switch on the TV by pressing the POWER button on the front of the TV.

To select TV stations using program numbers

After the TV is switched on:

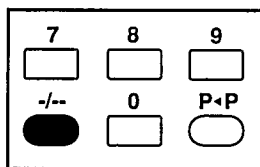
To select TV stations using program numbers 0 to 9

- Press the appropriate **digit** button on the remote control handset. The selected program number and TV station now appear on the screen.
- Press a different **digit** button to make another selection.



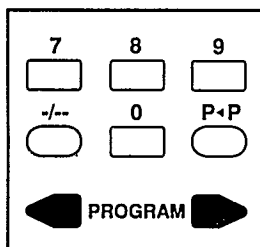
To select TV stations using program numbers 10 to 59

- Press the **-/--** button. **P--** is displayed on the screen.
- Press **two** appropriate **digit** buttons. The selected program number and TV station now appear on the screen.
- Repeat the above procedure to make another two-digit program selection.



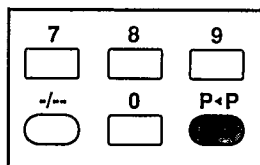
To select a lower or higher program number

- Press the **▷ PROGRAM** button to select a **higher** program number.
- Press the **◁ PROGRAM** button to select a **lower** program number.



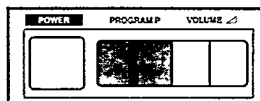
To select the previously used program number

- Press the **P+P** button to select the previous program number.



To select TV stations using the TV buttons

- Press the right **PROGRAM P** button to select a **higher** program number.
- Press the left **PROGRAM P** button to select a **lower** program number.

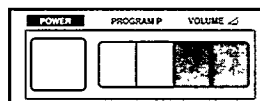


and To change the picture and sound settings

(When the TV is first switched on the picture and sound settings are always at preferred or 'personal preference' values. Initially these values have been stand by the factory, but you can change them using the sound and picture buttons on the TV or remote control handset.)

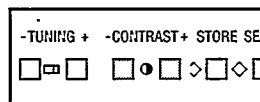
To change the volume ()

- Press the right button to increase volume.
- Press the left button to decrease volume.



To change the contrast of the picture ()

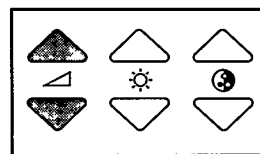
- Press the right button to increase the amount of contrast.
- Press the left button to decrease the amount of contrast.



Note: The contrast button is only available on the TV.

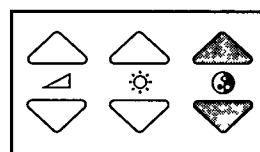
To change the volume ()

- Press the **△** button to increase the volume.
- Press the **▽** button to decrease the volume.



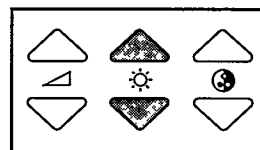
To change the colour intensity ()

- Press the **△** button to increase the colour intensity.
- Press the **▽** button to decrease the colour intensity.



To change the brightness ()

- Press the **△** button to increase the brightness.
- Press the **▽** button to decrease the brightness.

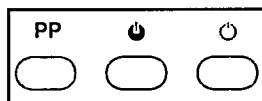


Operating the TV

 To return to the personal preference settings

- Press the PP button.

Note: If you refer to the General Information section you can also find how to store your own 'personal preference' values.

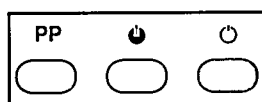


 To select stand-by mode

The TV can be put into stand-by mode in three ways:

1. Directly

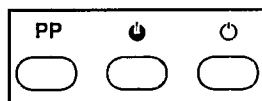
- Press the  button. The RED colour is displayed on the lamp located below the screen, and the TV is put into stand-by mode.



2. Using the timer

(With this method you can select a time period after which the TV switches to stand-by mode.)

- Press the  button until the required time period is displayed on the screen (the time period can be set in steps of 15 minutes starting from 90 minutes).



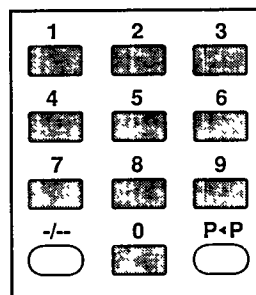
During the final minute of the selected time period, '01' is displayed on the screen informing you that the TV is going to switch to stand-by mode. At the end of this time period the TV switches to stand-by mode and the RED colour is displayed on the lamp located below the screen.

3. Automatically

Approximately 15 minutes after a TV station stops broadcasting ('closedown') the TV switches itself automatically to stand-by mode.

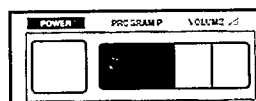
 or  To switch on the TV from stand-by mode

- Press a digit button on the remote control handset so that a program number is selected.



Or,

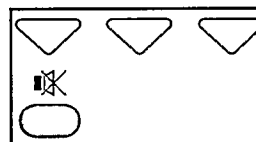
- Press the left or right PROGRAM P button.



The RED colour lamp (located below the screen) changes to GREEN when the TV is switched on from stand-by mode.

 To switch off the sound

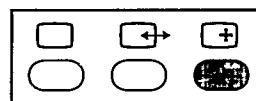
- Press the  button to switch off ('mute') the sound.
-  is displayed on the screen.
- Press the  button again to switch the sound on.
-  is removed from the screen.



 To display picture and sound information

(The 'On-Screen-Display' allows you to see the information stored for a particular program number and TV station.)

- Press the  button to display the information on the screen.
- Press the  button again to switch off the information display.



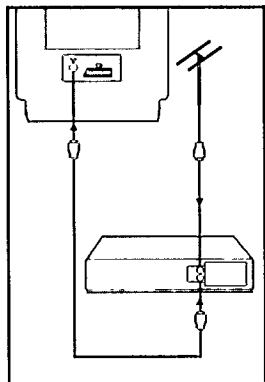
To display additional picture and sound information

- Press and continue to hold the  button until additional information is displayed on the screen.

If you now make changes to the picture and sound using the appropriate buttons, then a **moving bar** is displayed which represents these changes as they are being made.

- Press the  button again to switch off the additional information display.

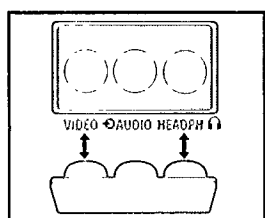
Additional features



- TV To connect a video recorder**
(First you must refer to the operating manual supplied with your video recorder for connection details.)
- Switch off the TV before connecting the video recorder.
 - Connect the TV aerial cable to the 'IF' input on the video recorder.
 - Connect one side of the cable supplied with the video recorder to the TV output of the video recorder and the other side of the cable to the 'IF' input of the TV.

Additionally,

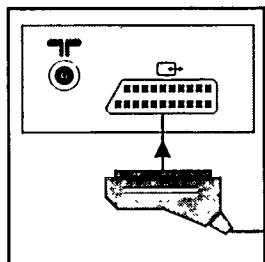
- A video recorder or camcorder may be connected at the video/audio input sockets (cinch type) at the front of the TV for 'playback' of tapes only.



Note: Remove the protective cover (if supplied) from the video/audio and headphone sockets before connecting a device.

or,

- The video recorder may also be connected at the Euroconnector socket at the back of the TV (a support-bracket is also provided for the Euroconnector cable on the back of the TV).

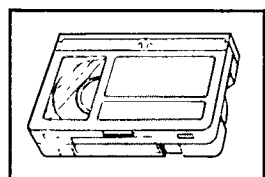


Note: To obtain an optimal sound and picture signal we advise that you do not connect the video/audio input sockets and the Euroconnector simultaneously.

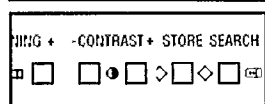
TV To store the video recorder signal on a program number
(After you have connected the video recorder to the 'IF' socket you can store the video recorder signal on a program number.)

- Switch on the TV.

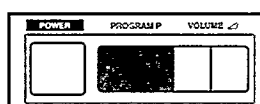
1. Insert a pre-recorded tape in the video recorder, and press the 'PLAY' button on the video recorder.



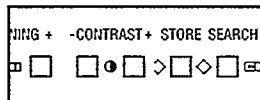
2. Press the $\diamond$ button so that the program number information is displayed.



3. Press the $\square$ button so that the TV automatically searches for the video signal. If necessary press this button again until the video signal is located.



4. Select an available program number by pressing the left or right PROGRAM P button on the TV.

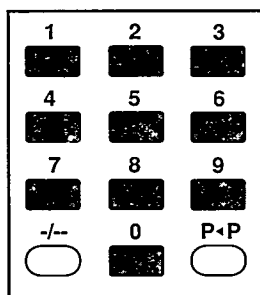


5. Press the $\diamond$ button to store the video signal on the selected program number.

6. Press the 'STOP' button on the video recorder.

To select the program number for the video recorder signal

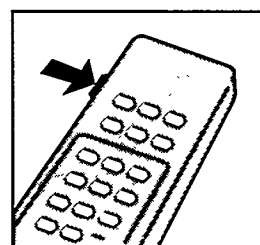
- Press the appropriate digit button (for the program number on which the video signal has been stored).
- To return to normal TV operation press another digit button to select a TV station.



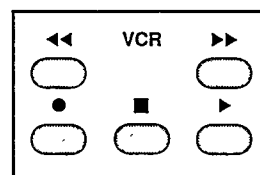
If the Euroconnector or video/audio input sockets are used then refer to the section 'to select the device signal'.

To operate a video recorder using the remote control handset

(The following information only applies if your video recorder uses the RC5 system for the remote control handset.)



- Press and continue to hold the button located on the side of the remote control handset before selecting any of the following functions:



- Press the $\blacktriangleright$ button to 'PLAY' the video cassette.
- Press the $\bullet$ button to 'RECORD' on the video cassette.
- Press the $\blacksquare$ button to 'STOP' the video cassette.
- Press the $\blacktriangleleft$ button to 'REWIND' the video cassette.
- Press the $\blacktriangleright$ button to 'FAST FORWARD' the video cassette.

Additional features

TV To connect other devices
e.g. computer, TV game, LaserVision
player.
(First you must refer to the operating
manual supplied with the device.)

either,

A device with video (CVBS) output can
be connected to the video/audio input
sockets on the front of the TV.

Note: Remove the protective cover (if
supplied) from the video/audio and
headphone sockets before connecting
a device.

or,

A device with a Euroconnector can be
connected to the Euroconnector
socket at the back of the TV (a support
bracket is provided for the
Euroconnector cable on the back of
the TV).

or,

A device can be connected to the Γ
socket at the back of the TV

- Switch off the TV.
- Connect the device.

TV To select the device signal

- Switch on the TV.

When the video/audio input sockets
are used the device signal is available
in external mode 1 (EXT 1):

- Press the  button so that the
device signal is received and EXT 1 is
displayed on the screen.

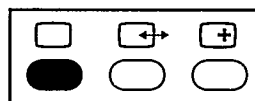
When the Euroconnector is used then
the device signal is available in either
external mode 1 or 2 (EXT 1 or EXT 2):
Certain devices connected to the
Euroconnector socket will
automatically switch the TV to receive
the device signal.

If the TV does **not** automatically receive
the device signal:

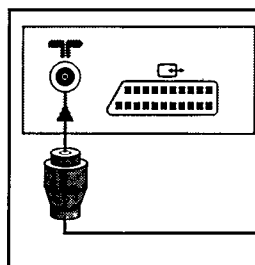
- Press the  button so that EXT 1
is displayed on the screen.

or,

- Press the  button **again** so that
EXT 2 is displayed on the screen.



- To return to normal TV operation
press the  button.

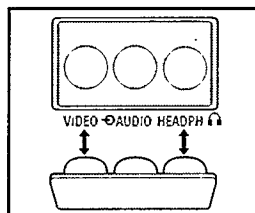


If the Γ socket is used then the signal
must be stored on a program number
before it can be selected (refer to the
section 'to store the video recorder
signal on a program number').

TV To connect headphones

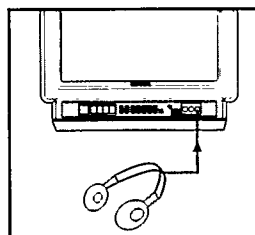
(The headphones used must be 8 to
1000 ohm, and 6.3 mm in diameter.)

- Remove the protective cover (if
supplied) from the video/audio and
headphone sockets.



- Connect the headphones jack-plug
to the  socket on the front of the TV.

Note: the loudspeaker is switched off
automatically when the headphones
are connected.



General information

and To store TV stations directly

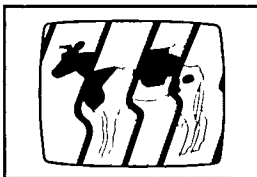
(First you must know the frequency on which the TV station is being transmitted.)



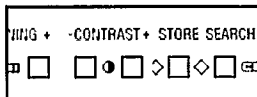
1. Press the **P/F** button to switch to frequency setting.
2. Select the frequency using three **digit** buttons on the remote control handset (e.g. to select channel E4; the digit buttons 062 must be pressed, and to select channel 69; the digit buttons 855 must be pressed).
3. Press the   button to display the program number information.
4. Select a program number using the digit buttons on the remote control handset.
5. Press the   button to store these changes.
6. Press the **P/F** button to switch to program number settings.

To fine tune the picture quality

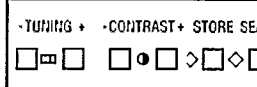
(The picture from a TV station or a device such as a video recorder may be affected by interference, e.g. from other strong signal sources.)



The picture quality may be improved using the following method:



1. Press the   button to display the program number information.



2. Press the left or right  button, and release it immediately, so that the picture is fine tuned.

3. Press the   button to store these changes.

and To store your own personal preference (PP) values

- Press the   button on the TV to display the program number information.

- Change the picture and sound settings (e.g. volume, contrast) using the remote control handset or TV controls.

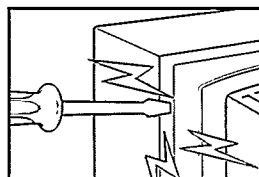
- Press the   button on the TV to store these changes. The program number information is now removed from the screen.

To clean the TV screen

- It is possible to clean the TV screen using a slightly damp chamois leather. **Never** use aggressive cleaning agents.

Fault indication

IMPORTANT: Never attempt to repair a broken TV yourself; always consult a skilled TV service engineer.

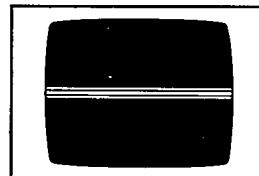


If the TV does not give the desired picture or sound quality after switching on then check that:

- the aerial is connected properly.
- all controls and buttons are selected correctly.
- the selected TV station is not 'closed-down'.
- the TV is not incorrectly switched to EXT 1 or EXT 2.
- the sound is switched on (not 'muted').

switch off the TV if:

- Indication F0, F1, F2, F3, F4, F5, F6 or F7 is displayed on the screen.
- a bright white line is displayed across the screen.



Notes

- (GB) IDENTITY CARD** This card, together with the terms of guarantee (to be provided by your dealer), forms the full certificate of guarantee for this appliance
- (D) GERÄTE-KENNKARTE** Diese Karte ist, zusammen mit den Garantiebestimmungen, die Ihr Händler Ihnen aushändigt, Ihr Garantieschein für dieses Gerät
- (F) CARTE D'IDENTIFICATION** Associée aux conditions de garantie (qui vous sont remises par le revendeur), cette carte constitue le certificat de garantie de cet appareil
- (NL) IDENTIFICATIEKAART** Deze kaart vormt, samen met de garantievoorwaarden (welke door uw dealer verstrekt worden), het garantiebewijs voor dit apparaat
- (I) CARTE D'IDENTIFICAZIONE** Questa cartolina rappresenta insieme alle condizioni di garanzia (da consegnare dal vostro rivenditore) il documento di garanzia per questo apparecchio
- (E) TARJETA DE IDENTIFICACIÓN** La garantía de este aparato se compone de esta tarjeta y de las condiciones de garantía que le entregará su concesionario
- (P) CARTÃO DE IDENTIFICAÇÃO** Este cartão, em conjunto com as condições de garantia em vigor (explicadas pelo seu vendedor) constituem o certificado de garantia do seu aparelho
- (DK) I.D. KORT** Dette kort, udfyldt af Deres forhandler, er tilstrækkelig garantidokumentation for dette apparat
- (N) IDENTIFIKASJOKORT** Dette kort, sammen med garantibetingelsene (som De får av forhandleren) utgjør garantibeviset for dette apparat
- (S) IDENTIFIERINGS-KORT** Detta kort tillsammans med garantivilkoren som Du får av rad ohandlaren, utgör ett fullständigt garantibevis för denna produkt
- (SF) TUNNISTUS-KORTTI** Tämän laiteen takuutodistus muodostuu tasta kortista ja takuuehdoista (jälleenmyyjä antaa mukaan)
- (GR) ΔΕΛΤΙΟ ΤΑΥΤΟΤΗΤΑΣ** Η κάρταella αυτή μαζί με τους όρους εγγυήσεως (που θα προμηθευθείτε από το κατάστημα που αγοράσατε την συσκευή) αποτελούν το πλήρες πιστοποιητικό εγγυήσεως της συσκευής σας

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